		EAST SEARCH	2/2/06
#	Hits	Search String	Databases
S1	9702	((digital or data) near2 communication\$1) with (modulat\$3 or equaliz\$3 or (symbol near2 (inte US-PGPUB; USPAT;	EPO;
S2	1557	S1 and ((decod\$3 or estimat\$3) with symbol\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
83	290	S1 and ((decod\$3 or estimat\$3) with symbol\$1 with sample\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S4	290	S2 and ((decod\$3 or estimat\$3) with symbol\$1 with sample\$1)	JPO; DERWENT;
SS	110	S2 and (reliability with (symbol\$1 or sample\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
Se Se	56		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S7	75	S2 and (reliability with (limit\$1 or threshold\$1))	USPAT; EPO;
S8	4	S5 and S7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S9	45	S2 and (sample\$1 with (adjacent or neighboring) with (symbol\$1 or sample\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S10	0	S2 and ((rescatter\$3 or scatter\$3) near2 sample\$1)	USPAT; EPO;
S13	321	S2 and ((decod\$3 or estimat\$3) with "maximum likelihood")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S14	8	S2 and (("intersymbol interference" or ISI) with coefficient\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S15	216	S2 and (trellis near2 decod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S16	0	S2 and (("intersymbol interference" or ISI) with coefficient\$1 with distribution)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S18	283	S2 and (weight\$3 with (symbol\$1 or sample\$1))	USPAT; EPO;
S19	-	S2 and (weight\$3 with reliability with (limit\$1 or threshold\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S20	7	S2 and (weight\$3 with reliability)	USPAT; EPO;
S21	52	S2 and (("intersymbol interference" or ISI) with probability)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S22	412	S2 and (fram\$3 with (symbol\$1 or sample\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S24	0	S2 and (subtrct\$3 with equaliz\$3)	JPO; DERWENT;
S25	749	S2 and (receiver\$1 with (decoder\$1 or detector\$1 or demodulator\$1))	EPO;
S26	296	S6 or S7 or S8 or S9 or S11 or S12 or S14 or S17 S19 or S20 or S21 or S23	PO
S27	1033	S4 or S5 or S13 or S15 or S18 or S22	USPAT; EPO;
S28	252	S26 and S27	USPAT; EPO; JPO;
S29	109	S28 and S25	EPO;
S30	252	S28 or S29	USPAT; EPO;
S11	32	S2 and (constellation with region\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S12	45	S2 and (decision with region\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S17	9	S2 and (("intersymbol interference" or ISI) with distribution)	USPAT; EPO; JPO; DERWENT; IBM
S23	53	S2 and (("intersymbol interference" or ISI) with coefficient\$1 with (estimat\$3 or calculat\$3 or col	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S31	7	6,556,634.pn.	USPAT;
S32	_	S31 and (ISI or "intersymbol interference")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S33	-	S31 and (ISI or "inter-symbol interference")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S34	7	6,581,179.pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S35	9702	((digital or data) near2 communication\$1) with (modulat\$3 or equaliz\$3 or (symbol near2 (inte	USPAT;
S36	1557		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S37	290	S36 and ((decod\$3 or estimat\$3) with symbol\$1 with sample\$1)	
S38	110	S36 and (reliability with (symbol\$1 or sample\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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S83 S84 S85 S86	64 80 80 80 80	S36 and ((distribution) with probability) S52 and S83 S60 and (previous\$2 with symbol\$1) S60 and (probability with symbol\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S87 S88	27 33	S85 and S86 S60 and (trellis near2 decod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S89 S90	85 60 87	S60 and (trellis) S60 and (trellis with decod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S91 S92	58	S60 and (receiver with demodulator) S61 and (memory with buffer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S93 S94	o -	S61 and (processor with detector\$1) S61 and ((processor\$1 or CPU) with detector\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S95 S96	0 -	S61 and (reliable with symbol\$1) S61 and (decod\$3 with signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S97 S98	0 0	6,581,179.pn. 6,556,634.pn	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
	1		00-1 01 001 01, E1 0, 91 0, EE, 111 1, 111 1, 111

09/836,281 Eilon Riess

Results of search set S91:

EAST SEARCH

2/2/06

Abstract

	Sou and (receiver with demodulator)		
Document Kind Codes Title		Issue Date Current OR	_
US 20040190649 A1	US 20040190649 A1 Joint, adaptive control of equalization, synchronization, and gain in a digital communications r	20040930 375/326	
US 20040190641 A1	US 20040190641 A1 Method and system for modulating and demodulating signals in ultra-wide band (UWB) comm	20040930 375/261	
US 20040184564 A1	US 20040184564 A1 Timing synchronization for M-DPSK channels	20040923 375/330	
US 20040120300 A1	US 20040120300 A1 System, method and apparatus for parallel information transmission in wireless communicatio	20040624 370/342	
US 20040042566 A1	US 20040042566 A1 Symbol reliability determination and symbol pre-selection based on reliability criteria	20040304 375/341	
US 20040037374 A1	US 20040037374 A1 Efficient partial response equalization	20040226 375/341	
US 20040001561 A1	US 20040001561 A1 Method and system for the transmission, reception and processing of 4-level and 8-level signs	20040101 375/308	
US 20030156603 A1	US 20030156603 A1 Apparatus and method for trellis encoding data for transmission in digital data transmission sy	20030821 370/485	
US 20030128751 A1	US 20030128751 A1 Method and apparatus for frequency-domain tracking of residual frequency and channel estim	20030710 375/229	
US 20030123595 A1	US 20030123595 A1 Multi-pass phase tracking loop with rewind of future waveform in digital communication systen	20030703 375/376	
US 20030112914 A1	US 20030112914 A1 Multi-pass phase tracking loop with rewind of current waveform in digital communication syste	20030619 375/376	
US 20030086515 A1	US 20030086515 A1 Channel adaptive equalization precoding system and method	20030508 375/346	
US 20030081576 A1	US 20030081576 A1 Transmitting/receiving apparatus and method for packet retransmission in a mobile communic	20030501 370/335	
US 20030053550 A1	US 20030053550 A1 System and method for recovering symbol timing offset and carrier frequency error in an OFD	20030320 375/267	

sion sy 20021205 375/346 20021205 375/354 20021205 375/354 20021017 375/341 375/341 375/341 375/341 375/341 375/355 375/359 32011108 375/359 375/239 375/239 375/239 375/239 375/239 375/239 375/239 375/239 375/239 375/239 375/233 39980501 375/233 375/252	19980915 19980616 19971202 19971125 19940405 19940322 19930803 19910409
Channel equalization system and method Means and method for a synchronous network communications system Method for enhancing soft-value information Apparatus and method for trellis encoding data for transmission using orthogonal codes and head the Apparatus and method for socima edigital data fransmission in digital data transmission sy Apparatus and method for scorma edigital data fransmission in digital data transmission sy Apparatus and method for scorma edigital data fransmission in digital data transmission sy Technique for minimizing decision feedback equalizer wordlength in the presence of a DC con Apparatus and method for SCDMA digital data transmission using orthogonal codes and a hea. Whiteening matched filler for use in a communications receiver Dual mode QAMVSB receiver Whiteening matched filler for use in a communications receiver Dual mode QAMVSB receiver Method for enhancing soft-value information Multi-pass phase tracking loop with rewind of current waveform in digital communication system Method and apparatus for equalization method and apparatus Apparatus and method for equalization in distributed digital data transmission systems Method and apparatus for the transmission, reception and processing of 4-level and 8-level signs System and method for recovering symbol timing offset and carrier frequency error in an OFD Method and apparatus for transmission of digital data System and method for a synchronous network communications system Apparatus and method for a synchronous network communications system Apparatus and method for a synchronous network communications system Apparatus and method for SCDMA digital data transmission using orthogonal codes Apparatus and method for SCDMA digital data transmission using orthogonal codes Apparatus and method for SCDMA digital data transmission using orthogonal codes Apparatus and method for data transmission using orthogonal codes Communication system Adaptive-equalized digital receiver with carrier tracking Lower overhead method for d	Demodulator apparatus for digital radio communication receiver providing pseudo-coherent que Coherent demodulation with decision-directed channel estimation for digital communication Shared resource modulator-demodulator circuits for use with vestigial sideband signals. Shared resources modulator-demodulator circuits for use with quadrature amplitude modulate. Method and apparatus for symbol clock phase recovery. Apparatus for improved underwater acoustic telemetry utilizing phase coherent communication Equalizer training in a radiotelephone system. Communication system receiver apparatus and method for fast carrier acquisition. Doppler-corrected differential detection system.
US 20030016770 A1 US 20020181633 A1 US 20020181633 A1 US 20020150180 A1 US 20020015423 A1 US 20010038674 A1 US 20010038674 A1 US 20010024474 A1 US 20010024474 A1 US 20010024474 B1 US 20010024474 B1 US 6862326 B1 US 6862326 B1 US 6862326 B1 US 6862328 B1 US 6862328 B1 US 6862328 B1 US 6862328 B1 US 6863308 B1 US 6384858 B1 US 6442212 B1 US 6384858 B1 US 6384858 B1 US 6384858 B1 US 6442312 B1 US 639030 B1 US 636555 B1 US 636555 B1 US 6363030 B1 US 6363030 B1 US 6263030 B1 US 63903466 A US 5991308 A US 5991308 A	5809009 5768307 5694419 5692013 5598439 5301167 5297169 523333 5007068

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		Abstract
2/2/06 Databases US-PGPUB US-PGPUB US-PGPUB US-PGPUB US-PGPUB US-PGPUB US-PGPUB US-PGPUB US-PGPUB	2/2/06	ssue Date Current OR 20040930 375/326 20040930 375/261 20040923 375/261 200400624 370/342 20040304 375/341 20040101 375/308 20030710 375/308 20030710 375/29 20030703 375/376 20030508 375/346 20030508 375/346 20030503 375/346 200305123 375/346
EAST SEARCH Search String communication\$1 near2 (system or data or mobile) 1 and constellation 1 and reliability 3 and (estimat\$3 near2 symbol) 4 and (reliability with threshold) 4 and (reliable near2 symbol) 5 and (reliability.CLM.) 5 and (threshold.CLM.) 7 or 8 or 9	EAST SEARCH	lest S91: Se Title Joint, adaptive control of equalization, synchronization, and gain in a digital communications of the system for modulating and demodulating signals in ultra-wide band (UWB) comnown method and system for modulating and demodulating signals in ultra-wide band (UWB) comnown method and apparatus for parallel information transmission in wireless communication system, method and apparatus for parallel information and processing of 4-level and 8-level signal method and system for the transmission, reception and processing of 4-level and 8-level signal method for trellis encoding data for transmission in digital data transmissions. Method and apparatus for frequency-domain tracking of residual frequency and channel estinal method and apparatus for frequency-domain tracking of tresting loop with rewind of current waveform in digital communication system. Multi-pass phase tracking loop with rewind of current waveform in digital communication system. Channel adaptive equalization precoding system and method for recovering symbol timing offset and carrier frequency error in an OFE Channel equalization system and method.
L# Hits L1 130752 L2 3628 L3 19160 L4 499 L5 33 L6 33 L7 12 L8 3 L9 12 L10 18		Results of search set S91: Document Kind Codes Title US 20040190649 A1 Joint, US 20040190641 A1 Metho US 20040120300 A1 Syste US 20040042566 A1 Timin US 20040037374 A1 Efficie US 20040001561 A1 Metho US 20030156603 A1 Appar US 20030128751 A1 Metho US 20030128751 A1 Metho US 20030128751 A1 Multi- US 20030086515 A1 Chan US 20030086515 A1 Trans US 20030081576 A1 Trans US 20030053550 A1 Syste US 20030053550 A1 Syste US 20030053550 A1 Chan

and carrier frequence and carrier frequence when extracting train ications system g orthogonal codes sion using orthogonal codes ating method in digital ordlength in the present of a digital receiver for a gligital receiver for a gligital receiver for a stimation for digital ceceiver with vestigial sideba	AdMVSB receiver to use in a communication receiver that the control must be used to use in a communication receiver that the control of digital data that the control of the control of digital data of co-channel NTSC interference artifacts when extracting training signal for a Doethod for a synchronous network communications system of recovering symbol timing offset and carrier frequency error in an OFI apparatus for transmission of digital data of co-channel NTSC interference artifacts when extracting training signal for a Doethod for a synchronous network communications system and method for digital data transmission using orthogonal codes and a he control of quadrature multi-pulse (QMP) signaling in the presence of a DC control of quadrature multi-pulse (QMP) signaling in the presence of a DC control of quadrature adaptively-equalized self-recovering digital receiver for amplitude-phase in system and adaptively-equalized self-recovering digital receiver for amplitude-phase and method for data transmission using ATM and SCDMA over hybrid fiber coax spaced adaptively-equalized self-recovering digital receiver for amplitude-phase analizer for digital communications systems apparatus for digital radio communication receiver providing pseudo-coherent q modulation with decision-directed channel estimation for digital communication receiver providing pseudo-coherent q modulation with decision-directed channel estimation for digital communication receiver providing signals.	Means and wethod for trellis encoding data for transmission in digital data transmission sylaparatus and method for trellis encoding data for transmission in digital data transmission sylaparatus and method for trellis encoding data for transmission in digital data transmission sylaparatus and method for SCDMA digital data transmission using orthogonal codes and a he Whitening matched filter for use in a communications receiver Whitening matched filter for use in a communications receiver Method for enhancing soft-value information Multi-pass phase tracking loop with rewind of current waveform in digital communication systems Multi-pass phase tracking loop with rewind of current waveform in digital communication systems Apparatus and method for equalization method and apparatus Method and apparatus for quadrature multi-pulse modulation of data for spectrally efficient co Method and apparatus for quadrature multi-pulse modulation of data for spectrally efficient co Method and apparatus for transmission, reception and processing of 4-level and 8-level sign System and method for recovering symbol timing offset and carrier frequency error in an OFT Method and apparatus for transmission of digital data Suppression of co-channel NTSC interference artifacts when extracting training signal for a D Means and method for SCDMA digital data transmission using orthogonal codes Apparatus and method for SCDMA digital data transmission using orthogonal codes and a he Efficient MLSE equalization for qualizer and demodulating method in digital communication Technique for minimizing decision feedback equalizer wordlength in the presence of a DC co Communication systems Adaptive-equalized digital receiver with carrier tracking Lower overhead method for data transmission using ATM and SCDMA over hybrid fiber coax Fractionally-spaced adaptively-equalized self-recovering digital receiver for amplitude-phase Adaptive-equalized digital communications systems Coding for higher-level modulation communication systems
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US 5007068 A US 4837786 A	Communication system receiver apparatus and method for fast carrier acquisition Doppler-corrected differential detection system Technique for mitigating rain fading in a satellite communications system using quadrature ph	19930803 375/344 19910409 375/280 19890606 370/206	
Results of search set S91:			
Document Kind Codes Title US 20050283702 A1 Soft-	decision decoding using selective hit flipping	Issue Date Current OK Abst 2005/1222 714/752	Abstract
US 20050250526 A1		20051110 455/522	
US 20050250524 A1	Methods and apparatus for fast downlink information of uplink out-of-synchronization	20051110 455/509	
US 20050180364 A1	Construction of projection operators for interference cancellation	20050818 370/335	
US 20040234007 A1	Multiuser detection with targeted error correction coding	20041125 375/340	
US 20040179578 A1	Method of processing a signal by a radio receiver and radio receiver for the implementation o	20040916 375/130	
US 20040042566 A1	Symbol reliability determination and symbol pre-selection based on reliability criteria	20040304 375/341	
US 20040013169 A1	PHASE ROTATION DETECTION APPARATUS AND RADIO BASE STATION APPARATUS	20040122 375/147	
US 20030174767 A1	MIMO receiver and method of reception therefor	20030918 375/229	
US 20030156672 A1	Frame synchronization and detection technique for a digital receiver	20030821 375/365	
US 20030076905 A1	Method and a device for controlling data extraction from a data stream containing at lease on	20030424 375/343	
US 20020181621 A1	Method for estimating the bit error rate in a radio receiver and corresponding radio receiver	20021205 375/340	
US 20020164967 A1	Radio receiving device and radio receiving method	20021107 455/226.1	
US 20020161560 A1	Turbo-reception method and turbo-receiver	20021031 702/196	
US 20020129318 A1	Soft output viterbi algorithm (SOVA) with error filters	20020912 714/795	
US 20020046379 A1	Communication system employing automatic repeat request	20020418 714/749	
US 20020037062 A1	Reliable symbols as a means of improving the performance of information transmission syste	20020328 375/348	
US 20020007257 A1	Reliable symbols as a means of improving the performance of information transmission syste	20020117 703/2	